## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. (currently amended): A method of forming a film on a substrate comprising:
- (a) positioning the substrate on a non-biased support in a chamber;
- (b) supplying to the chamber in gaseous or vapour form a silicon-containing organic compound and an oxidising agent in the presence of a plasma to deposit a film on the substrate positioned on the non-biased support; and
- (c) setting the film such that carbon-containing groups are contained therein, wherein the oxidising agent is oxygen.
- 2. (cancelled).
- 3. (previously presented): A method according to claim 1, wherein the siliconcontaining organic compound is an alkylsilane.
- 4. (previously presented): A method according to claim 1, herein the siliconcontaining organic compound is a tetraalkylsilane.
- 5. (cancelled).
- 6. (previously presented): A method according to claim 1, wherein the silicon-containing organic compound is a methylsilane.

- 7. (original): A method according to claim 3, wherein the silicon-containing organic compound is cyclohexyldimethoxymethylsilane.
- 8. (previously presented): A method according to claim 1, wherein the film is deposited on a substrate positioned on a low temperature support.
- 9. (original): A method according to claim 6, wherein the support is at a temperature between about 0°C to about 60°C.
- 10. (previously presented): A method according to claim 6 wherein the support is at about 30°C.
- 11. (previously presented): A method according to claim 1, further comprising providing a plasma during deposition of the film.
- 12. (previously presented): A method according to claim 1, wherein the set film has a dielectric constant of about 2.55 or less.
- 13. (previously presented): A method of forming a film on a substrate comprising:
- (a) positioning the substrate on a non-biased support in a chamber;
- (b) supplying to the chamber in gaseous or vapour form tetramethylsilane and oxygen in the presence of a plasma to deposit a film on the substrate positioned on the non-biased support in the chamber; and
- (c) setting the film such that carbon-containing groups are contained therein.
- 14. (previously presented): A method according to claim 13, further comprising supplying the plasma from an RF power source connected to an electrode opposing the substrate support.

- 15. (previously presented): A method according to claim 13 wherein the substrate support is at D.C. ground during the application of the plasma.
- 16. (previously presented): A method as claimed in claim 13 wherein the film is set by exposing it to an H<sub>2</sub> containing plasma without any prior annealing or heating step.
- 17. (original): A method as claimed in claim 16 wherein the  $H_2$  containing plasma is substantially only a  $H_2$  plasma.
- 18. (previously presented): A method as claimed in claim 16 wherein the H<sub>2</sub> containing plasma treatment last for between 30 seconds and 30 minutes.
- 19. (previously presented): A method as claimed in claim 16 wherein the H<sub>2</sub> containing plasma treatment lasts from 1 to 10 minutes.
- 20. (previously presented): A method as claimed in claim 16 wherein the H<sub>2</sub> containing plasma treatment step lasts no more than 5 minutes.
- 21. (previously presented): A method as claimed in claim 16 wherein the H<sub>2</sub> containing plasma treatment step lasts no more than 10 minutes.
- 22. (original): A method as claimed in claim 16 where the hydrogen containing plasma is applied simultaneously with heating.
- 23. (original): A method as claimed in claim 22 where the substrate is heated to approximately 400°C.

- 24. (cancelled).
- 25. (original): A method as claimed in claim 1 where the setting of the film substantially removes water and/or OH peaks from the FTIR spectra of the as deposited film.
- 26. (currently amended): An apparatus for forming a film on a substrate, the apparatus comprising:
- (a) a non-biased support for the substrate positioned in a chamber;
- (b) means for supplying to the chamber in gaseous or vapour form a siliconcontaining organic compound and an oxidising agent in the presence of a plasma to deposit a film on the substrate positioned on the non-biased support; and
- (c) means for setting the film such that carbon-containing groups are contained therein,

  wherein the oxidising agent is oxygen.
- 27. (original): An apparatus according to claim 26, further comprising means for improving the uniformity of the deposition of the film on the substrate.
- 28. (original): An apparatus according to claim 27, wherein the means for improving the uniformity is arranged around a showerhead.
- 29. (cancelled).

- 30. (previously presented): A method as claimed in claim 1, wherein said setting includes annealing the film to remove at least one of H<sub>2</sub>O and OH from the film with the carbon-containing groups remaining therein.
- 31. (previously presented): A method as claimed in claim 1, wherein said setting includes subjecting the film to a hydrogen-containing plasma to remove at least one of H<sub>2</sub>O and OH from the film with the carbon-containing groups remaining therein.
- 32. (previously presented): A method as claimed in claim 13, wherein said setting includes annealing the film to remove at least one of H<sub>2</sub>O and OH from the film with the carbon-containing groups remaining therein.
- 33. (previously presented): A method as claimed in claim 13, wherein said setting includes subjecting the film to a hydrogen-containing plasma to remove at least one of H<sub>2</sub>O and OH from the film with the carbon-containing groups remaining therein.
- 34. (previously presented): A method as claimed in claim 26, wherein said setting includes annealing the film to remove at least one of H<sub>2</sub>O and OH from the film with the carbon-containing groups remaining therein.
- 35. (previously presented): A method as claimed in claim 26, wherein said setting includes subjecting the film to a hydrogen-containing plasma to remove at least one of H<sub>2</sub>O and OH from the film with the carbon-containing groups remaining therein.
- 36. (previously presented): A method according to claim 1 wherein the substrate support is at D.C. ground during the application of the plasma.

- 37. (previously presented): A method according to claim 26 wherein the substrate support is at D.C. ground during the application of the plasma.
- 38. (previously presented): A method according to claim 1, further comprising depositing a resist on the set film and subsequently stripping the resist using oxygen.
- 39. (previously presented): A method according to claim 38, wherein the film is substantially unaffected by the oxygen used in stripping the resist.
- 40. (previously presented): A method according to claim 13, further comprising depositing a resist on the set film and subsequently stripping the resist using oxygen.
- 41. (previously presented): A method according to claim 40, wherein the film is substantially unaffected by the oxygen used in stripping the resist.
- 42. (previously presented): An apparatus according to claim 26, further comprising means for depositing a resist on the set film and subsequently stripping the resist using oxygen.
- 43. (previously presented): An apparatus according to claim 42, wherein the film is substantially unaffected by the oxygen used in stripping the resist.